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1 Using Lookahead to reduce memory bank contention for decoupled operand



references

Peter L. Bird, Richard A. Uhlig

August 1991 Proceedings of the 1991 ACM/IEEE conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.09 MB)

Additional Information: full citation, references, citings, index terms

Preprocessors in a data communication computer environment

window



David L. Mills

October 1969 Proceedings of the first ACM symposium on Problems in the optimization of data communications systems

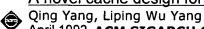
Publisher: ACM Press

Full text available: pdf(1.26 MB)

Additional Information: full citation, abstract, references, index terms

Realizing the need for a highly adaptable transmission control unit to interface varied terminal equipment to the Michigan Timesharing System (MTS), the University of Michigan initiated in 1965 the development of a special control unit to be used in conjunction with the System/360 Model 67. Called the Data Concentrator The design approach taken in the Data Concentrator has been to nucleate about a small general-purpose computer a number of special-purpose interfaces to the variou ...

3 A novel cache design for vector processing



April 1992 ACM SIGARCH Computer Architecture News, Proceedings of the 19th annual international symposium on Computer architecture, Volume 20 Issue 2 Publisher: ACM Press, ACM Press

Full text available: pdf(1.35 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper introduces an innovative cache design for vector computers, called primemapped cache. By utilizing the special properties of a Mersenne prime, the new design does not increase the critical path length of a processor, nor does it increase the cache access time as compared to a direct-mapped cache. The prime-mapped cache minimizes cache miss ratio caused by line interferences that have been shown to be critical for numerical applications by previous investigators. We show that sig ...

4 A 50-Gb/s IP router

Craig Partridge, Philip P. Carvey, Ed Burgess, Isidro Castineyra, Tom Clarke, Lise Graham, Michael Hathaway, Phil Herman, Allen King, Steve Kohalmi, Tracy Ma, John Mcallen, Trevor Mendez, Walter C. Milliken, Ronald Pettyjohn, John Rokosz, Joshua Seeger, Michael Sollins, Steve Storch, Benjamin Tober, Gregory D. Troxel

June 1998 IEEE/ACM Transactions on Networking (TON), Volume 6 Issue 3

Publisher: IEEE Press

Additional Information: full citation, references, citings, index terms, Full text available: pdf(133.28 KB) review

Keywords: data communications, internetworking, packet switching, routing

⁵ Contents of the Computer Communication Review 1970–1994

David Oran

January 1995 ACM SIGCOMM Computer Communication Review, Volume 25 Issue 1

Publisher: ACM Press

Additional Information: full citation, index terms Full text available: pdf(1.75 MB)

6 Exploring the benefits of multiple hardware contexts in a multiprocessor architecture:

preliminary results

W.-D. Weber, A. Gupta

April 1989 ACM SIGARCH Computer Architecture News, Proceedings of the 16th annual international symposium on Computer architecture, Volume 17 Issue 3 Publisher: ACM Press, ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(965.98 KB) terms

A fundamental problem that any scalable multiprocessor must address is the ability to tolerate high latency memory operations. This paper explores the extent to which multiple hardware contexts per processor can help to mitigate the negative effects of high latency. In particular, we evaluate the performance of a directory-based cache coherent multiprocessor using memory reference traces obtained from three parallel applications. We explore the case where there are a small fixed number (2-4 ...

7 Multiprocessor Organization—a Survey

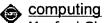
Philip Enslow

January 1977 ACM Computing Surveys (CSUR), Volume 9 Issue 1

Publisher: ACM Press

Full text available: pdf(1.79 MB) Additional Information: full citation, references, citings, index terms

8 Special session on reconfigurable computing: Reconfigurable platforms for ubiquitous



Manfred Glesner, Thomas Hollstein, Leandro Soares Indrusiak, Peter Zipf, Thilo Pionteck, Mihail Petrov, Heiko Zimmer, Tudor Murgan

April 2004 Proceedings of the 1st conference on Computing frontiers

Publisher: ACM Press

Full text available: pdf(479.97 KB) Additional Information: full citation, abstract, references, index terms

Ubiquitous computing requires flexibilty. Melting distributed electronic devices into

everyday's life implies the need to adapt to evolving standards and dynamic environments. Furthermore, to gain user acceptance, such devices should be able to adapt to different usage patterns and user profiles. Scalability is also an important issue, allowing functional enhancements to already deployed systems. In this work we address these issues applying the concept of reconfigurability on different abstract ...

Keywords: communication, dynamic power management, networks-on-chip, reconfigurable hardware, reconfigurable processors, reconfiguration, ubiquitous computing

⁹ A processor for a high-performance personal computer

Butler W. Lampson, Kenneth A. Pier

May 1980 Proceedings of the 7th annual symposium on Computer Architecture

Publisher: ACM Press

Full text available: pdf(1.24 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper describes the design goals, micro- architecture, and implementation of the microprogrammed processor for a compact high performance personal computer. This computer supports a range of high level language environments and high bandwidth I/O devices. Besides the processor, it has a cache, a memory map, main storage, and an instruction fetch unit; these are described in other papers. The processor can be shared among 16 microcoded tasks, performing microcode context switches ...

10 The VMP network adapter board (NAB): high-performance network communication

for multiprocessors

H. Kanakia, D. Cheriton

August 1988 ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols, Volume 18 Issue 4

Publisher: ACM Press, ACM Press

Full text available: pdf(1.63 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

High performance computer communication between multiprocessor nodes requires significant improvements over conventional host-to-network adapters. Current host-to-network adapter interfaces impose excessive processing, system bus and interrupt overhead on a multiprocessor host. Current network adapters are either limited in function, wasting key host resources such as the system bus and the processors, or else intelligent but too slow, because of complex transport protocols and because of a ...

11 A processor for a high-performance personal computer

Butler W. Lampson, Kenneth A. Pier

August 1998 25 years of the international symposia on Computer architecture (selected papers)

Publisher: ACM Press

Full text available: pdf(1.57 MB)

Additional Information: full citation, references, index terms

12 Spatial computation

Mihai Budiu, Girish Venkataramani, Tiberiu Chelcea, Seth Copen Goldstein

October 2004 Proceedings of the 11th international conference on Architectural support for programming languages and operating systems, volume 32,

39 , 38 Issue 5 , 11 , 5

Publisher: ACM Press, ACM Press, ACM Press

Full text available: pdf(573.00 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a computer architecture, *Spatial Computation* (SC), which is based on the translation of high-level language programs directly into hardware structures. SC program implementations are completely distributed, with no centralized control. SC circuits are optimized for *wires* at the expense of computation units. In this paper we investigate a particular implementation of SC: ASH (Application-Specific Hardware). Under the assumption that computation is cheaper than co ...

Keywords: application-specific hardware, dataflow machine, low-power, spatial computation

13 The Starfire SMP interconnect

Alan Charlesworth, Nicholas Aneshansley, Mark Haakmeester, Dan Drogichen, Gary Gilbert, Ricki Williams, Andrew Phelps

November 1997 Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM Press

Full text available: pdf(273.52 KB) Additional Information: full citation, abstract, references, citings

The Starfire interconnect extends the envelope of Unix symmetric multiprocessor (SMP) systems in several dimensions. **Interconnect:** an active centerplane with four address routers and a 16x16 data crossbar provides 64 UltraSPARC processors with uniform memory access at a bandwidth of 10,667 MBps. **Flexibility:** Starfire can be dynamically reconfigured into multiple hardware-protected operating system domains. **Robustness:** Failing boards can be hot swapped without interrupting sy ...

Keywords: SMP, UMA, bandwidth, domains, interconnect, latency, partitions

14 Architecture and implementation of a VLIW supercomputer

Robert P. Colwell, W. Eric Hall, Chandra S. Joshi, David B. Papworth, Paul K. Rodman, James E. Tornes

November 1990 Proceedings of the 1990 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society

Full text available: pdf(1.29 MB) Additional Information: full citation, abstract, references

Very-Long-Instruction-Word (VLIW) computers achieve high performance by exploiting the fine-grain parallelism present in sequential or vectorizable code. Multiflow's /200 and /300 VLIW systems yielded near-supercomputer performance by this means despite the relatively slow (65 nS) clocks. With its much faster clock period (15 nS) and architectural improvements, the new /500 system attains approximately 4-9X the performance of its predecessors. This paper describes the /500 architecture and implem ...

15 The datacycle architecture for very high throughput database systems

Gary Herman, K. C. Lee, Abel Weinrib

December 1987 ACM SIGMOD Record, Proceedings of the 1987 ACM SIGMOD international conference on Management of data, Volume 16 Issue 3

Publisher: ACM Press, ACM Press

Full text available: pdf(1.00 MB)

Additional Information: full citation, abstract, references, citings, index terms

The evolutionary trend toward a database-driven public communications network has motivated research into database architectures capable of executing thousands of transactions per second. In this paper we introduce the Datacycle architecture, an attempt to exploit the enormous transmission bandwidth of optical systems to permit the implementation of high throughput multiprocessor database systems. The architecture has

the potential for unlimited query throughput, simplified data man ...

16 Conjoined-Core Chip Multiprocessing

Rakesh Kumar, Norman P. Jouppi, Dean M. Tullsen

December 2004 Proceedings of the 37th annual International Symposium on Microarchitecture

Publisher: IEEE Computer Society

Full text available: pdf(369.99 KB) Additional Information: full citation, abstract

Chip Multiprocessors (CMP) and Simultaneous Multi-threading (SMT) are two approaches that have been proposed to increase processor efficiency. We believe these two approaches are two extremes of a viable spectrum. Between these two extremes, there exists a range of possible architectures, sharing varying degrees of hardware between processors or threads. This paper proposes conjoined-core chip multiprocessing - topologically feasible resource sharing between adjacent cores of a chip multiprocess ...

17 Low power scalable encryption for wireless systems

James Goodman, Anantha P. Chandrakasan January 1998 **Wireless Networks**, Volume 4 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(7.39 MB) Additional Information: full citation, abstract, references, index terms

Secure transmission of multimedia information (e.g., voice, video, data, etc.) is critical in many wireless network applications. Wireless transmission imposes constraints not found in typical wired systems such as low power consumption, tolerance to high bit error rates, and scalability. A variety of low power techniques have been developed to reduce the power of several encryption algorithms. One key idea involves exploiting the variation in computation requirements to dynamically vary th ...

18 Self-assessment procedure XII: a self-assessment procedure dealing with computer

<u>architecture</u>

Robert I. Winner, Edward M. Carter

January 1984 Communications of the ACM, Volume 27 Issue 1

Publisher: ACM Press

Full text available: pdf(589.25 KB) Additional Information: full citation, references, index terms

19 Hybrid volume and polygon rendering with cube hardware

Kevin Kreeger, Arie Kaufman

July 1999 Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on Graphics hardware

Publisher: ACM Press

Full text available: pdf(1.85 MB) Additional Information: full citation, references, citings, index terms

Keywords: cube architecture, mixing polygons and volumes, ray casting, run-length-encoding, volume rendering

20 Interconnections in Multi-Core Architectures: Understanding Mechanisms, Overheads and Scaling

Rakesh Kumar, Victor Zyuban, Dean M. Tullsen

June 2005 Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05

Publisher: IEEE Computer Society

Full text available: pdf(235.90 KB) Additional Information: full citation, abstract

This paper examines the area, power, performance, and design issues for the on-chip interconnects on a chip multiprocessor, attempting to present a comprehensive view of a class of interconnect architectures. It shows that the design choices for the interconnect have significant effect on the rest of the chip, potentially consuming a significant fraction of the real estate and power budget. This research shows that designs that treat interconnect as an entity that can be independently architecte ...

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